Application of Southern California Gas Company (U 904 G) and San Diego Gas & Electric Company (U 902 G) for Authority to Revise their Natural Gas Rates Effective January 1, 2017 in this Triennial Cost Allocation Proceeding Phase 2

A.15-07-_____ (Filed July 8, 2015)

PREPARED DIRECT TESTIMONY OF

MARJORIE SCHMIDT-PINES

SOUTHERN CALIFORNIA GAS COMPANY

AND

SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

July 8, 2015

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I.

PURPOSE

PREPARED DIRECT TESTIMONY OF MARJORIE SCHMIDT-PINES

The purpose of my prepared direct testimony on behalf of San Diego Gas & Electric Company (SDG&E) is to update the Long-Run Marginal Cost (LRMC) study for SDG&E's customer cost and gas distribution service functions and to allocate gas base margin to SDG&E's six customer classes. My testimony is organized as follows: Section II provides an overview of SDG&E's cost allocation proposal; Section III derives customer-related marginal costs; • Section IV explains the derivation of demand-related distribution marginal costs; Section V presents SDG&E's Real Economic Carrying Charges and marginal • loading factors; Section VI summarizes the method for allocating gas base margin to • SDG&E's customer classes; and Section VII shows the allocated costs. • II. COST ALLOCATION PROPOSAL FOR SDG&E SDG&E proposes to continue the cost allocation framework most recently adopted by the California Public Utilities Commission (Commission) in Decision (D.) 14-06-007, SDG&E's 2013 Triennial Cost Allocation Proceeding (TCAP). Namely, SDG&E uses LRMC studies to allocate costs to its customer-related, medium-pressure distribution, and high-pressure distribution functions and an Embedded Cost Study (ECS) to allocate costs to its transmission function. A separate study for the Natural Gas Vehicle (NGV) compression adder is presented in the direct testimony of Mr. Bonnett. SDG&E follows the same cost allocation principles discussed in Section II of the direct testimony of Dr. Chaudhury.

Customer-related costs reflect the capital-related as well as the operations and 1 2 maintenance (O&M) expenses incurred by SDG&E to provide customer access to the gas supply system. Medium-pressure and high-pressure distribution costs are associated with building and 3 maintaining systems that deliver gas to customer load centers from the gas transmission system. 4 Transmission costs are those required to deliver gas from non-local receipt points to distribution 5 centers inside SDG&E's service territory. The ECS for SDG&E transmission costs is provided 6 in the direct testimony of Ms. Fung. 7 Marginal costs are based on the incremental costs incurred by SDG&E to provide an 8

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additional unit of output and, for the purposes of this LRMC study, include both capital-related and O&M expense-related costs. Marginal customer costs are derived using engineering-based calculations of customer connection equipment costs, including meters, regulators, and service lines, as well as corresponding marginal O&M expenses. For the reasons presented in the direct testimony of Dr. Chaudhury, the "Rental" methodology is used to determine marginal customer costs per customer and results in one effective marginal unit cost for all customers in each rate class.

Distribution marginal costs are calculated by taking a linear regression of 15 years of demand and investment data. Cumulative marginal investment serves as the dependent variable, while cumulative marginal peak-day demand is the independent variable. This analysis is completed separately for both the medium-pressure and high-pressure distribution systems. The resulting regression coefficient of the independent variable represents unit marginal capital cost.

SDG&E's authorized margin is allocated to customer classes using marginal demand
 measures applied to the marginal unit costs. These demand measures were established in the
 LRMC Decision, D.92-15-058, and have been updated in the subsequent cost allocation

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proceedings since, most recently in D.14-06-007. This includes allocating distribution costs
using peak-day demand and customer costs using the total number of customers per class.
SDG&E allocates costs to three core customer classes and three noncore customer classes. The
three core classes are residential, core commercial and industrial (C&I), and NGV. The noncore
customer classes are C&I, small electric generation (EG) (< 3 million therms per year), and large
EG (> 3 million therms per year).

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III.

CUSTOMER-RELATED MARGINAL COSTS

Customer-related marginal costs include both marginal capital-related costs as well as marginal O&M costs. SDG&E calculates marginal capital-related customer costs using the Rental method, as discussed in Section III of the direct testimony of Dr. Chaudhury, to determine the annualized cost of service lines, regulators, and meters (SRM) for each customer class. The derivation of O&M loaders are described in Section V below.

A.

Marginal Capital Costs

SRM costs reflect the capital expense associated with providing customer access to the gas supply system. These costs include gas meters, regulators, pipes, and installation labor. The SDG&E Gas Distribution Engineering Department provides updated customer data, including:

- Meter size, type, regulator, fitting costs and installation costs;
- Updated service footages;
- Updated service costs for new hook-ups and replacements;
- Updated costs of service line installations; and
- Updated series of flow ranges, and corresponding equipment profiles, at each range. Twenty-four flow ranges are identified for which SRM costs are summarized. These total capital costs are annualized using corresponding Real Economic Carrying Charge (RECC)
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factors, which are presented in Section V below. The annualized costs are multiplied by the number of meters for each customer class represented within each flow range to determine the total annual capital cost associated with serving each class. Finally, the total annualized capital cost is divided by the forecast number of customers in each class to determine each class' average marginal SRM cost. Table 1 shows the resulting annualized marginal capital-related costs.

TABLE 1 CUSTOMER-RELATED LRMC - CAPITAL COSTS				
Customer Class	Rental-Method Customer Cost			
	(2017 \$/customer)			
Residential	\$181			
Core Commercial/Industrial	\$311			
Natural Gas Vehicle	\$3,496			
Noncore Commercial/Industrial	\$4,690			
Small Electric Generation	\$2,517			
Large Electric Generation	\$3,394			

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B. Fully Loaded Customer-Related LRMC

Table 2 provides the total marginal customer costs for the six SDG&E customer classes.These costs are the result of combining the "fully-loaded" O&M costs, which are discussed inSection V, with the capital related costs from Table 1. The fully-loaded O&M costs includedirect O&M and O&M loaders. The O&M loaders are Administrative and General (A&G)expenses, Materials and Supplies (M&S), and General Plant, as discussed in Section V below.The noncore customer classes post significantly higher marginal costs per customer than the corecustomer classes because noncore customers have much higher gas service demands and requirelarger and more specialized metering and service facilities compared to core customers.

TABLE 2							
CUSTOME	CUSTOMER-RELATED LONG RUN MARGINAL COSTS						
	(2017	7 \$/custor	ner)				
			Expens	e-Related	O&M		
	Annualized						
	Capital				General	Total	
Customer Class	Cost	Direct	M&S	A&G	Plant	\$/Customer	
Residential	\$181	\$42	\$0.2	\$12	\$6	\$240	
Core Commercial/Industrial	\$311	\$106	\$0.4	\$30	\$14	\$462	
Natural Gas Vehicle	\$3,496	\$671	\$3	\$191	\$89	\$4,450	
Noncore Commercial/Industrial	\$4,690	\$3,856	\$16	\$1,096	\$510	\$10,168	
Small Electric Generation	\$2,517	\$3,115	\$13	\$885	\$412	\$6,941	
Large Electric Generation	\$3,394	\$3,583	\$15	\$1,019	\$474	\$8,485	

IV. DISTRIBUTION DEMAND-RELATED MARGINAL COSTS

Demand-related marginal costs are calculated for both the medium pressure (MPD) and high pressure distribution (HPD) systems. Separate marginal costs are calculated for the MPD and HPD systems because the two systems perform different functions. HPD investments are generally in pipelines that supply gas at a maximum allowable operating pressure of greater than 60 pounds per square inch gauge (psig) and are generally up to 10 inches in diameter. The MPD pipeline investments are generally in those pipelines at maximum allowable operating pressures up to 60 psig.

А.

Marginal Capital Costs

This LRMC study utilizes nine years of historical (2005-2013) and six years of forecast (2014-2019) distribution plant investments and marginal demand measures. The SDG&E Gas Distribution Engineering Department provides the historical period investments from an analysis of accounting data for MPD and HPD capital investments. The forecast investments are from the same department's capital budget forecast. The marginal demand measures are based on an analysis of peak-day throughput on the MPD and HPD distribution systems. The direct

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testimony and workpapers of Dr. Wetzel address the consolidated Demand Forecast, including peak-day load by market segment. 2

Linear regression is used to determine the marginal capital costs of the MPD and HPD systems. This method plots the cumulative incremental investment as the dependent variable against the cumulative incremental changes in peak-day demand, which is the independent variable. The slope of the best-fit line is taken to be the marginal capital cost. This capital cost is then annualized by using a weighted-average RECC factor applicable to demand-related distribution pipeline investments. Charts 1 and 2 on the following pages depict the linear regression analysis in graphical form.

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Fully Loaded Distribution LRMC

Fully-loaded O&M costs are added to distribution marginal capital costs to determine the total marginal costs for the MPD and HPD systems. Section V below develops the O&M expenses and indirect cost loaders. Table 3 and Table 4 present the total marginal costs for the medium-pressure and high-pressure distribution systems.



	TABLE 3 MEDIUM-PRESSURE DISTRIBUTION LRMC (2017 \$/MCF MPD peak day)				
x =	Marginal Investment Cost <u>RECC Factor</u> Annualized Investment Cost	\$2,478.15 <u>8.32%</u> \$206.31			
	Expense-Related				
+	O&M Cost	\$26.15			
+	A&G Cost	\$7.43			
+	General / Common Plant Cost	\$3.46			
+	M&S Cost	<u>\$0.54</u>			
=	Total Marginal Cost	\$243.90			



	TABLE 4 HIGH-PRESSURE DISTRIBUTION LRMC (2017 \$/MCF HPD peak day)				
x =	Marginal Investment Cost <u>RECC Factor</u> Annualized Investment Cost	\$275.05 <u>8.32%</u> \$22.90			
	Expense-Related				
+	O&M Cost	\$1.06			
+	A&G Cost	\$0.30			
+	General / Common Plant Cost	\$0.14			
+	M&S Cost	<u>\$0.06</u>			
=	Total Marginal Cost	\$24.46			

MARGINAL COST ESTIMATION FACTORS

A. Real Economic Carrying Charges

In D.92-12-058, the Commission adopted the use of Real Economic Carrying Charges in

LRMC studies. Section V of the testimony of Dr. Chaudhury discusses their purpose and

usefulness. Table 5 summarizes RECC factors used in this LRMC study for SDG&E.

TABLE 5 REAL ECONOMIC CARRYING CHARGE FACTORS			
Cost Type	RECC %		
Meters and Regulators	8.69%		
Meter/Regulator Installation	8.98%		
Service Line Pipe	8.50%		
Weighted-Average Distribution	8.32%		
Materials and Supplies	12.95%		
Weighted-Average General/Common Plant	11.50%		

B. Marginal Direct O&M Costs

Marginal direct O&M costs are derived for both distribution and customer-related functions. Distribution O&M expenses are accounted for in Federal Energy Regulatory Commission (FERC) Accounts 870-894 of SDG&E's Annual Report (Annual Report) to the Commission. They are allocated to the customer-related, as well as the MPD and HPD, functions. The direct O&M reflects costs associated with the maintenance of customers' meters, regulators, and service lines, as well as distribution main. Customer services expenses are accounted for in the Annual Report in FERC Accounts 901-905 and 907-910. They are allocated entirely to the customer-related function. These expenses are associated with responding to customer service field orders and generally operating and maintaining service lines, meters, and house regulators.

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1. Distribution O&M Expenses

Distribution O&M costs are assigned to market segments by classifying the costs as either customer-related or demand-related. Customer-related expenses are allocated entirely to the customer-related function. The demand-related expenses are allocated between the HPD, MPD, and customer-related functions predominantly based on pipeline mileage as of December 31, 2013. The SDG&E Gas Distribution Engineering Department identifies the marginal portion of each of FERC Accounts 870-894.

Once the distribution O&M expenses are functionalized, they are then allocated in two ways. Customer-related distribution O&M is allocated to the customer classes using the effective percentage of total annualized SRM investment costs. The resulting allocation of distribution O&M expenses to customer classes is combined with customer services O&M expenses discussed in the next section, and then divided by the number of customers in each class to determine a per-customer direct O&M expense. MPD and HPD O&M expenses are divided by the peak-day demand of each system to determine their respective direct O&M expenses. Table 6 below presents a summary of direct distribution O&M expenses by market segment.

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2. Customer Services O&M Expenses

Customer Services expenses in FERC Accounts 901-905 and 907-910 are functionalized entirely as customer-related cost. These costs include meter reading, customer services, credit collections, and billing services, and are allocated to customer classes in three steps. First, Customer Services marginal O&M expenses are classified into customer operational activities. Expenses by customer services department are then assigned to one of these operational

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1 activities. Finally, these expenses are allocated to customer classes based on either the

2 operational activity performed or the market segment supported.

Once customer services costs are allocated to the customer classes, they are combined with the portion of Distribution O&M costs allocated to customer-related function (as described in the previous section) in order to develop total customer-related O&M costs. Table 6 shows the updated customer-related direct O&M costs.

CUSIOMER-RELATED DIRECT MARGINAL U&M EXPENSES							
	(2017 ३)					
	070	001					
	870-	901-	Customoro	Direct ORM			
Customor Class	894 ¢000	910 ¢000					
	\$000	\$000	per class	\$/Customer			
Residential	\$33,982	\$1,083	839,369	\$42			
Core Commercial/Industrial	\$3,584	\$55	34,335	\$106			
Natural Gas Vehicle	\$36	\$0.1	53	\$671			
Noncore Commercial/Industrial	\$69	\$124	50	\$3,856			
Small Electric Generation	\$36	\$139	56	\$3,115			
Large Electric Generation	\$18	\$40	16	\$3,583			
	870-	901-	Peak-day				
	894	910	Load	Direct O&M			
Distribution Function	\$000	\$000	(mcfd)	\$/mcfd			
Medium-Pressure	\$9,695	\$0	370,694	\$26.15			
High-Pressure	\$422	\$0	397,907	\$1.06			

C. Marginal Loading Factors

SDG&E derives loading factors for marginal cost investments using the same

methodology included in the 2013 TCAP application, A.11-11-002. The loading factors are for

costs related to A&G expenses, General Plant (GP), and Materials and Supplies (M&S).

1. A&G Loading Factor

Marginal A&G expenses and payroll taxes are combined into a single loading factor.

The recorded year 2013 A&G expenses from the Annual Report are classified as marginal and

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non-marginal by account. As shown below in Table 7, the A&G expenses and payroll tax loader
is 28.43%. The A&G loading factor is calculated as a percentage of total O&M (less A&G) and
then multiplied by the direct O&M unit cost for each function.

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	TABLE 7 A&G LOADING FACTOR				
	Account Description	Marginal Costs \$ 000s			
+ =	A&G Expenses <u>Payroll Taxes</u> Total A&G with Payroll Taxes	\$24,586 <u>\$4,654</u> \$29,240			
/=	Total O&M Expenses excluding A&G A&G Loading Factor	<u>\$102,863</u> 28.43%			

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2. General Plant Loading Factor

General plant includes structures and improvements, office furniture and equipment, computer applications and equipment, shop and garage equipment, and communication equipment, as well as plant shared between SDG&E electric and gas operations allocated to the gas function. The recorded year 2013 General Plant total is multiplied by the weighted-average RECC factor of 11.50% to obtain an annualized general plant of \$24.8 million. The general plant loading factor is then determined by dividing annualized general plant by total O&M expenses. Table 8 shows the derivation of the General Plant Loading Factor to be 13.22%.

	TABLE 8 GENERAL PLANT LOADING FACTOR					
	Account Description \$ 000s					
+ =	Total General Plant <u>Average General Plant RECC</u> Annualized General Plant	\$215,973 <u>11.50%</u> \$24,844				
/ =	Total O&M Expenses General Plant Loading Factor	<u>\$187,881</u> 13.22%				

3. M&S Loading Factor

M&S includes those materials in stock for use in company operations. Examples of M&S items include pipe, valves, fittings, and safety equipment. Recorded year 2013 M&S costs of \$3.5 million are allocated to the functions based on percentage of gross plant in each functional category and then multiplied by an RECC factor of 12.95% to obtain annualized M&S costs. M&S costs allocated to the customer cost function are further allocated to the customer classes at the same relative percentage as direct O&M. M&S loaders are then derived by dividing allocated M&S costs by the number of customers in each class. For the distribution functions, allocated M&S costs are divided by peak-day load in order to determine the loader amounts. Table 9 presents the resulting M&S loading costs by customer class and function.

TABLE 9 M&S LOADING FACTORS (2017 \$)					
Customer Class	Allocated	Customers	M&S Loader		
	M&S	per Class	\$/Customer		
Residential	\$147,877	839,369	\$0.18		
Core Commercial/Industrial	\$15,346	34,335	\$0.45		
Natural Gas Vehicle	\$150	53	\$2.83		
Noncore Commercial/Industrial	\$813	50	\$16.26		
Small Electric Generation	\$736	56	\$13.13		
Large Electric Generation	\$242	16	\$15.11		
Distribution Function	Allocated M&S	Peak-day Load (mcfd)	M&S Loader \$/mcfd		
Medium-Pressure	\$201,388	370,694	\$0.54		
High-Pressure	\$24,504	397,907	\$0.06		

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VI. ALLOCATED BASE MARGIN

Upon completing the LRMC unit cost studies, SDG&E allocates costs to each function using the appropriate Marginal Demand Measure (MDM). Each MDM reflects the forecast annual average for the 2017 – 2019 TCAP period, as presented in the direct testimony of Dr. Wetzel. Total customer-related costs are determined by multiplying each class' LRMC by the number of customers in each class. MPD and HPD costs are determined by multiplying each function's LRMC by the corresponding peak-day demand. Tables 10a and 10b detail this process.

TABLE 10a UNSCALED LONG RUN MARGINAL COST CUSTOMER COST					
Customer Class	Customer LRMC \$/customer	Customer Count	Customer Cost \$000		
Residential Core C/I NGV	\$240 \$462 \$4,450	884,624 30,265 38	\$212,544 \$13,980 \$171		
Total Core			\$226,694		
Noncore C/I Small EG Large EG Total Noncore	\$10,168 \$6,941 \$8,485	52 51 20	\$529 \$355 \$168 \$1,051		
Total SDG&E			\$227,746		

	TABLE 10b UNSCALED LONG RUN MARGINAL COST DISTRIBUTION COSTS						
Customer Class	MPD LRMC \$/mcfd	MPD Peak-Day (Mcfd)	MPD Costs \$000	HPD LRMC \$/mcfd	HPD Peak-Day (Mcfd)	HPD Costs \$000	
Residential Core C/I NGV	\$244 \$244 \$244	281,218 84,891 1,937	\$68,588 \$20,705 \$472	\$24 \$24 \$24	281,300 86,516 5.004	\$6,881 \$2,116 \$122	
Total Core		,	\$89,765		- ,	\$9,120	
Noncore C/I Small EG Large EG	\$244 \$244 \$244	5,551 3,749 2,182	\$1,354 \$914 \$532	\$24 \$24 \$24	7,651 5,852 20,084	\$187 \$143 \$491 \$822	
Total SDG&E			_{⊅∠,800}			₅₀22 \$9,941	

In D.92-12-058, the Commission stated that "marginal cost revenues need to be scaled to the embedded-based authorized revenue requirement under our ratemaking procedures." The

1	current SDG&E gas base margin for transportation rates effective January 1, 2015, is \$306
2	million, and this is the revenue requirement used to determine the scalar. The scalar adjusts
3	allocated marginal costs to the authorized base margin, excluding costs directly assigned to the
4	Transmission (\$38 million) and NGV Public Access (\$0.5 million) functions. The embedded
5	cost of transmission is from the direct testimony of Ms. Fung, and the NGV public access station
6	cost is from the workpapers of Mr. Bonnett. In this TCAP, marginal costs are scaled at a rate of
7	81% in order to reconcile to the adjusted base margin of \$267 million, which is added the
8	Transmission of \$38 million and the NGV Public Access of \$0.5 million to derive the base
9	margin of \$306 million. Table 11 shows this process. Finally, scaled LRMC costs are added to
10	the Transmission and NGV Public Access costs to determine the fully cost-based allocation of
11	authorized gas base margin. ¹ This is presented in Table 12.

TABLE 11											
\$ 000											
	Customer						Unscaled				Scaled
Customer Class	Cost	+	MPD	+	HPD	=	LRMC	х	Scalar	=	LRMC
Residential	\$212,544		\$68,588		\$6,881		\$288,013		81%		\$232,998
Core C/I	\$13,980		\$20,705		\$2,116		\$36,801		81%		\$29,771
NGV	\$171		\$472		\$122		\$765		81%		\$619
Total Core	\$226,694		\$89,765		\$9,120		\$325,579		81%		\$263,389
Noncore C/I	\$529		\$1,354		\$187		\$2,070		81%		\$1,674
Small EG	\$355		\$914		\$143		\$1,412		81%		\$1,142
Large EG	\$168		\$532		\$491		\$1,191		81%		\$964
Total Noncore	\$1,051		\$2,800		\$822		\$4,673		81%		\$3,781
Total SDG&E	\$227,746		\$92,565		\$9,941		\$330,252		81%		\$267,169

¹ Per the direct testimony of Ms. Fung, the SDG&E transmission system is 100% backbone. For the purposes of this testimony, SDG&E's \$38 million in backbone transmission costs are allocated to the Backbone Transmission Service rate class. These costs will be incorporated in System Integration in the direct testimony of Mr. Bonnett, which unbundles part of the combined SoCalGas/SDG&E transmission system into the Backbone Transportation Service tariff, with the remaining transmission costs being allocated to the local transmission function and, ultimately, back to the customer classes.

		T	ABLE 12						
ALLOCATION OF BASE MARGIN \$ 000									
Customer Class	Scaled LRMC	+	Backbone Transmission	+	NGV Public Access	=	Unadjusted Allocated Base Margin		
Residential	\$232,998		\$0		\$0		\$232,998		
Core C/I	\$29,771		\$0		\$0		\$29,771		
NGV	\$619		\$0		\$494		\$1,114		
Total Core	\$263,389		\$0		\$494		\$263,883		
Noncore C/I	\$1,674		\$0		\$0		\$1,674		
Small EG	\$1,142		\$0		\$0		\$1,142		
Large EG	\$964		\$0		\$0		\$964		
Total Noncore	\$3,781		\$0		\$0		\$3,781		
Backbone									
Transmission	\$0		\$38,229		\$0		\$38,229		
Total SDG&E	\$267.169		\$38.229		\$494		\$305.893		

1VII.COMPARISON OF PROPOSED COST ALLOCATION TO CURRENT COST2ALLOCATION

Table 13 shows a comparison of the proposed cost allocation to the current allocation.

4 This comparison is pre-System Integration and pre-BTS unbundling, discussed in the direct

5 testimony of Mr. Bonnett. The results are very similar to the 2013 TCAP.

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TABLE 13 COST ALLOCATION COMPARISON								
Customer Class	Adjusted Allocation of Base Margin	% Total	Current Allocation of Base Margin	% Total				
Residential Core C/I NGV	\$232,998 \$29,771 \$1,114	76.2% 9.7% 0.4%	\$233,081 \$35,290 \$1,220	76.2% 11.5% 0.4%				
Total Core	\$263,883	86.3%	\$269,591	88.1%				
Noncore C/I - D EG - D TLS	\$1,594 \$2,001 \$186	0.5% 0.7% 0.1%	\$2,174 \$1,061 \$1,593	0.7% 0.3% 0.5%				
Total Noncore	\$3,781	1.2%	\$4,828	1.6%				
Backbone Transmission Total SDG&E	\$38,229 \$305,893	12.5%	\$31,473 \$305,893	10.3%				

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This concludes my prepared direct testimony.

VIII. QUALIFICATIONS

My name is Marjorie A. Schmidt-Pines. My business address is 555 West Fifth Street,

11 Los Angeles, California, 90013-1011. I am employed by the Southern California Gas Company

12 (SoCalGas) as a Principal Regulatory Economic Advisor in the CPUC/FERC Gas Regulatory

13 Affairs Department for SoCalGas and SDG&E.

I hold a Bachelor of Science degree in Business Administration and Accounting from California State University at Northridge, California. I have been employed by SoCalGas since 1981, and have held positions of responsibilities as an Accountant and Senior Accountant in the Accounting & Finance department, as an Analyst and a Budget Coordinator in the Gas Supply department, and as a Market Advisor for the Marketing and Customer Services departments. I have been in my current position since September 2009.

As Principal Regulatory Economic Advisor, I support the gas transportation rates for both SoCalGas and for SDG&E. This includes allocating authorized revenue requirements to customer rate classes, developing the design of the rate for each class, and computing the impact on customers' monthly bills.

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